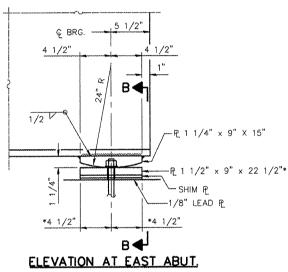
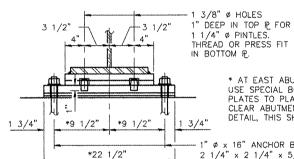


SIDE RETAINER, TYP. 11 1/2" 1 1/4" Ø x 15" ANCHOR BOLTS WITH 2 3/4" x 2 3/4" x 5/16" P WASHER UNDER NUT SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.

NOTES: ANCHOR BOLTS AT FIXED BEARINGS MAY BE BUILT INTO THE MASONRY, SEE ANCHOR BOLT DETAILS FOR BEARINGS SHEET FOR ANCHOR BOLT INSTALLATION.



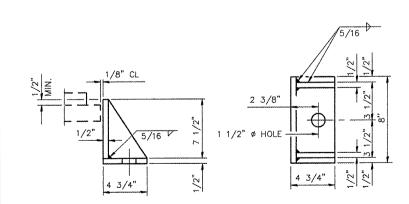


* AT EAST ABUTMENT FOR GIRDER G7, USE SPECIAL BOTTOM, SHIM AND LEAD PLATES TO PLACE ANCHOR BOLTS TO CLEAR ABUTMENT JOINT AS SHOWN IN DETAIL, THIS SHT.

- 1" Ø x 16" ANCHOR BOLTS WITH 2 1/4" x 2 1/4" x 5/16" P. WASHER UNDER NUT 1 1/2" Ø HOLES IN BOTTOM P

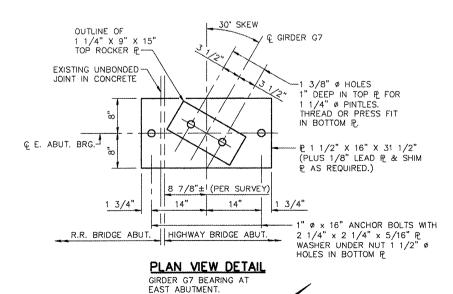
SECTION B-B

FIXED BEARING NEW GIRDERS G6 THRU G10



SIDE RETAINER (10 REQUIRED)

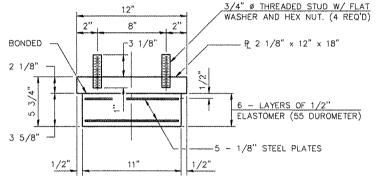
EQUIVALENT ROLLED ANGLE WITH STIFFENERS WILL BE ALLOWED IN LIEU OF WELDED PLATES. WEIGHT INCLUDED WITH STRUCTURAL STEEL.



INTERIOR GIRDER REACTION TABLE

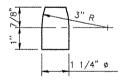
NEW GIRDERS G6 THRU G10

		ABUTMENT
RQ	(K)	64.3
RL	(K)	40.7
IMP.	(K)	8.9
R (TOTAL)	(K)	113.9



BEARING ASSEMBLY

SHIM PLATES SHALL NOT BE PLACED UNDER BEARING ASSEMBLY.



PINTLE

STEEL FOR BEARINGS AND SIDE RETAINERS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M270, GRADE 50.

BILL OF MATERIAL

ITEM ?	UNIT	TOTAL
ELASTOMERIC BEARING ASSEMBLY TYPE I	EACH	5

INTERIOR GIRDER MOMENT TABLE

NEW GIRDERS G6 THRU G10

		0.2 & 0.8 SPAN (@ F JOINTS)	0.5 SPAN (@ C)
ls ·	(in.4)	12,576	16,097
lc (n) (MINIMUM)	(in.4)	28,387	40,555
lc (3n) (MINIMUM)	(in.4)	21,061	28,460
Ss	(in.3)	722	1,108
Sc (n)	(in.3)	926	1,429
Sc (3n)	(in.3)	857	1,320
Z	(in.3)		
Q (AVERAGE)	(K/ft.)	0.891	0.891
мQ	('k)	802	1,212
sQ	(K/ft.)	0.35	0.35
Msℚ	('k)	313	470
MŁ	('k)	682	985
M (IMP)	('k)	149	216
53[M L+M(IMP)]	('k)	1,385	2,002
Ма	('k)	3,250	4,789
Mu	('k)		
fs Q (NON-COMP)	(k.s.i.)	13,3	13.1
fs Q(COMP)	(k.s.i.)	4.4	4.3
fs 53 (L+ IMP)	(k.s.i.)	17.9	16.8
fs (OVERLOAD)	(k.s.i.)	35.6	34.2
fs (TOTAL)	(k.s.i.)	46.3	44.5
VR	(K)	49.6	

IS AND SS ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE STEEL SECTION USED IN COMPUTING fs (TOTAL & OVERLOAD).

Ic (n) AND Sc (n) ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE COMPOSITE SECTION USED IN COMPUTING STRESSES DUE TO LIVE LOAD.

ic (3n) AND Sc (3n) ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE COMPOSITE SECTION USED IN COMPUTING STRESSES DUE TO SUPERIMPOSED DEAD LOADS. (SEE AASHTO 10.38)

VR IS THE MAXIMUM LIVE LOAD + IMPACT SHEAR RANGE IN SPAN.

Z IS THE PLASTIC SECTION MODULUS USED TO DETERMINE THE FULLY PLASTIC MOMENTS IN THE NON-COMPOSITE AREAS.

Mo (APPLIED MOMENT)=1.3[MQ+ MsQ+ $\frac{5}{3}$ (M \ + M(IMP))].

THE PLASTIC MOMENT CAPACITY (Mu) IS COMPUTED ACCORDING TO AASHTO 10.48.1 AND 10.50.1.1.

fs (OVERLOAD) IS THE SUM OF THE STRESSES DUE TO M \mathbb{Q} + MS \mathbb{Q} + $\frac{5}{3}$ (M \mathbb{Q} + M(IMP)).

THE STRUCTURAL STEEL FOR THE WELDED PLATE GIRDER FLANGES, WEBS, AND ATTACHED STIFFENERS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M270, GRADE 50.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION				
NAME	DATE	***	LITOID DEL PARTIMENT	0		
		CF	CAMP ST. REEK DIVERS	SION	CHANN	
			BEARING	DETA	AILS	
		SCALE:	N.T.S.	1	DRAWN BY:	MGM
		DATE:	12/22/2008		CHECKED BY:	PJL